

Melissa Evans

It's not just water - Fluid Therapy as a Drug | *Melissa Evans*

IV fluids may be the most prescribed therapy in veterinary medicine, but we don't often think about it as a drug. Different types of fluids are chosen for different reasons, and they can have unintended consequences. Knowing what, why and how to give fluids is an important skill for all veterinary technicians. This presentation will review reasons fluid therapy may be ordered for a patient and why certain types are chosen over others. Pathophysiology of fluids in the body will be examined. We will discuss how to monitor fluid therapy and what side effects we should be aware of. Specific disease and patient monitoring considerations will be identified.

At the end of this lecture the participant should be able to:

- Discuss why specific fluids are chosen for a patient
- Review the different reasons for providing fluid therapy
- Recognize how different disease processes require different fluid therapy plans.

Turn on the Lytes! Understanding Electrolytes | *Melissa Evans*

Electrolytes are essential for maintaining hemostasis in the body. They play a vital role in fluid balance and acid base status, as well as regulating cellular, myocardial, musculoskeletal and neurologic function. Recognizing and understanding electrolyte abnormalities is essential to treating our patients. This lecture will review the six major electrolytes and their role in the body. Monitoring and treatment of abnormalities will also be discussed.

At the end of this lecture the participant should be able to:

- Examine how electrolytes affect the balance of water in the body
- Discuss osmolality and tonicity
- Recognize disease processes that are commonly associated with electrolyte abnormalities
- Identify treatment plans and medications for patients with electrolyte imbalances

The Story of Murray: Post-Arrest Nursing Care. A Case Discussion | *Melissa Evans*

Congratulations, your CPR worked and your patient is back in the land of the living! What now?! The RECOVER guidelines aren't just for resuscitation, once we get our patients back there is a lot of work that goes in to making sure they have the best chance possible. This lecture will follow the story of Murray, a juvenile bulldog who was resuscitated after cardiopulmonary arrest. Using the best practices as outlined by the RECOVER guidelines we will review the intense care needed. Complications from cardiopulmonary arrest and return of spontaneous circulation will be examined and nursing care of the post-arrest patient will be discussed

At the end of this lecture the participant should be able to:

- Review the RECOVER Guidelines on Post-Arrest Care
- Identify the complications that can come from resuscitation
- Discuss the special patient care considerations for post-arrest patients

The Room is Spinning! Vestibular Disease in Companion Animals **| *Melissa Evans***

Vestibular disease is a fairly common problem in small animals that can have a very dramatic presentation. This lecture will cover the pathophysiology of vestibular disease, and the signs associated with it. We will discuss treatment and nursing consideration for patients who feel like their world is spinning. Real life cases will be used to illustrate concepts.

At the end of this lecture participants should be able to:

- Examine the anatomy of the vestibular system
- Describe the signs associate with vestibular disease
- Discuss peripheral and central localization of vestibular disease

Dysnatraemia | *Melissa Evans*

Sodium imbalance is common in critically ill patients. Sodium and water balance keep the volume and tonicity of body fluids within a normal range, when that balance is upset there can be severe consequences. This lecture will discuss the importance sodium and water concentrations have on extracellular fluid. Mechanisms of sodium and water balance will be reviewed. Clinical symptoms and treatment of hyponatremia and hypernatremia will be examined.

At the end of this lecture the participant should be able to:

- Discuss the body's mechanisms for maintaining sodium balance
- Identify clinical symptoms of hypo and hypernatremia

Review treatments of dysnatremia